

CLAIMS

1. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B, comprising:

- 5                   a preparatory operation for selecting a correction value for applying a color matching operation by either one of said computer image processing systems A and B based upon a common standard color image, and  
                  a color matching operation applied to a  
10   digital image displayed on a monitor of either one of said systems A and B to create a condition of substantial coincidence of a color thereof with a color of an original image, by adopting said correction value.

2. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B, according to claim 1,

                  said preparatory operation further comprising:

- an operation of making an action program  
20   by adopting said correction value to carry out said color matching operation without adjusting respective color data separately by a manual operation, and said color matching operation being carried out by adopting said action program to said color matching operation.

25   3. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B according to claim 1, wherein said common standard color image is a RGB standard color image.

30   4. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B according to claim 1, comprising:

- preparation of a common standard color image Z for said systems in advance to said preparatory operation, said preparatory operation comprising:  
35                   transferring said color image Z from said system A to said system B whereby a digital image Z<sub>1</sub> is displayed on the monitor of said system B,

carrying out a color matching operation applied to said digital image  $Z_1$  by a manual operation of adjusting color data displayed on said monitor so that a modified digital image  $Z_2$  having a color substantially coincident with a color of said image  $Z$  is displayed on said monitor of said system B,

reading color data deviated from an origin (zero point) of color data displayed on said monitor and setting the read data as a correction value  $\alpha$  applied to said color matching operation for correcting color of any digital image made by operations identical to successive operations applied to display said digital image  $Z_2$  on said monitor of said system B,

said color matching operation comprising:  
transferring an original image  $X$  from said system A to said system B whereby a digital image  $X_1$  is displayed on the monitor of said system B, and

carrying out said color matching operation applied to said digital image  $X_1$  by adopting said correction value  $\alpha$  so that a modified digital image  $X_2$  having a color substantially coincident with the color of the original image  $X$  is displayed on the monitor of the system B.

5. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B according to claim 4, further comprising:

a color matching operation applied to the system A, comprising:

an additional operation for setting a correction value for applying a digital image  $X_1$  displayed on the monitor of said system A created by a scanning operation, applied to said original image  $X$ , comprising:

firstly scanning said color image  $Z$  whereby a image  $Z_1$  is displayed on the monitor of said system A,

carrying out a color matching operation applied to said digital image  $Z_3$  by a manual operation of adjusting color data displayed on said monitor so that a color of said digital image  $Z_3$  becomes substantially coincident with a color of said color image  $Z$ ,

thereafter reading color data deviated from an origin (zero point) of color data displayed on the monitor of said system A, and setting the read data as a correction value  $\beta$  applied to said color matching operation applied to a digital image displayed on the monitor of said system A, created by applying the same operation as the operation applied to said digital image  $Z$ ,

a color matching operation being applied to said digital image  $X_3$  by adopting said correction value  $\beta$  whereby a modified digital image  $X_4$  having a color substantially identical to a color of said original image  $X$  is displayed on said monitor of said system A.

6. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B according to claim 1, comprising:

preparation of a common standard color image  $Z$  for said systems A and B in advance, said preparatory operation comprising:

scanning said standard color image  $Z$  by a scanner of said system A whereby a digital image  $Z_3$  is displayed on the monitor of said system A,

carrying out a color matching operation applied to said digital image  $Z_3$  by a manual operation of adjusting color data displayed on said monitor so that a modified digital image  $Z_4$  having a color substantially coincident with a color of said color image  $Z$  is displayed on said monitor,

transmission of said digital image  $Z_4$  to said system B whereby a digital image  $Z_5$  is displayed on the monitor of said system B,

carrying out a color matching operation applied to said digital image  $Z_s$  by a manual operation of adjusting color data displayed on said monitor of said system B so that a color of said digital image  $Z_s$  is changed to a condition substantially identical to a color of said standard image  $Z$ ,

reading color data deviated from an origin (zero point) of color data displayed on said monitor and setting the read data as a correction value  $\gamma$ , said correction value being applied to a color matching operation for adjusting a digital image made by successive operations identical to successive operations to display said digital image  $Z_s$  on said monitor of said system B, and said color matching operation comprising:

when a color matching operation is required to apply a digital image  $X_s$  made from an original image  $X$  by successive operations identical to the successive operations to display said digital image  $Z_s$  on said monitor of said system B, carrying out said color matching operation on said digital image  $X_s$  by adopting said correction value  $\gamma$ , whereby a modified digital image  $X_s$  having a substantially identical color to said original image  $X$  is displayed on said monitor of said system B.

7. A method for calibrating color of an image in transmission between a pair of computer image processing systems A and B according to claims 4 and 6, further comprising,

creation of a new digital image  $X_s$  from said digital image  $X_s$  by applying a conventional method to modify either one or both of image components and color of said digital image  $X_s$  displayed on said monitor of system B,

a preparatory operation to modify color of said digital image  $X_s$  by adopting a correction value being identical to  $(-\gamma)$ , whereby a modified digital image

X<sub>8</sub> is displayed on said monitor of system B,  
transferring said digital image X<sub>8</sub> from  
said system B to system A by an MO disc, whereby a  
digital image X<sub>9</sub> is displayed on said monitor of system A  
5 in a condition having substantially identical color to  
said digital image X<sub>8</sub>.